

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



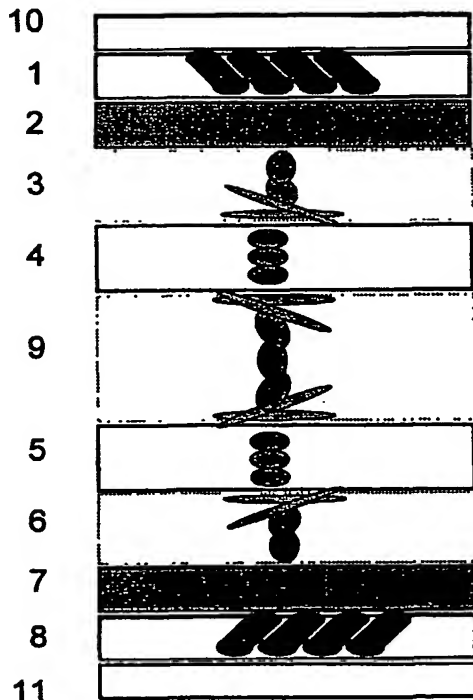
(43) International Publication Date
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number
WO 2004/036301 A1

- (51) International Patent Classification⁷: G02F 1/13363, 1/139, G02B 5/30 (74) Agent: MERCK PATENT GMBH; Frankfurter Strasse 250, 64293 Darmstadt (DE).
- (21) International Application Number: PCT/EP2003/010645 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 25 September 2003 (25.09.2003) (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: English (26) Publication Language: English
- (30) Priority Data: 02023372.2 18 October 2002 (18.10.2002) EP
- (71) Applicant (*for all designated States except US*): MERCK PATENT GMBH [DE/DE]; Frankfurter Strasse 250, 64293 Darmstadt (DE). Published: — with international search report
- (72) Inventor; and (75) Inventor/Applicant (*for US only*): SKJONNEMAND, Karl [GB/GB]; 26 Ingrebourne Way, Didcot Oxford OX11 7UP (GB). For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPENSATED LIQUID CRYSTAL DISPLAY OF THE BEND MODE



(57) Abstract: The invention relates to a compensated liquid crystal display (LCD) of the bend mode, in particular of the optically compensated bend (OCB) or pi-cell mode, and to a compensator for use in an LCD of the bend mode. The compensator comprises at least an A-plate, an O-plate and a negative C-plate.

WO 2004/036301 A1